

Multimedia Appendix 3: Quality of the reviewed studies

Quality of qualitative and mixed-methods studies (n=20)

Critical Appraisal Skills Programme (CASP) Qualitative Research Checklist 13.03.17[1]

- (1) Was there a clear statement of the aims of the research?
- (2) Is a qualitative methodology appropriate?
- (3) Was the research design appropriate to address the aims of the research?
- (4) Was the recruitment strategy appropriate to the aims of the research?
- (5) Was the data collected in a way that addressed the research issue?
- (6) Has the relationship between researcher and participants been adequately considered?
- (7) Have ethical issues been taken into consideration?
- (8) Was the data analysis sufficiently rigorous?
- (9) Is there a clear statement of findings?
- (10) How valuable is the research?

First Author	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	Rating
Barry et al 2015[2]	yes	yes	yes	yes	yes	can't tell	yes	yes	yes	yes	Satisfactory
Benetoli et al 2016[3]	yes	yes	yes	can't tell	yes	can't tell	yes	yes	yes	yes	Satisfactory
Dong et al 2015[4]	yes	yes	yes	yes	yes	can't tell	yes	can't tell	yes	yes	Satisfactory
Dieleman et al 2013[5]	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	Satisfactory
Flynn et al 2017[6]	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	Satisfactory
Goff et al 2016[7]	yes	yes	yes	yes	yes	yes	yes	can't tell	yes	yes	Satisfactory
Gruzd et al 2013[8]	yes	yes	yes	yes	yes	yes	can't tell	yes	yes	yes	Satisfactory
Gulacti et al 2016[9]	yes	yes	yes	yes	yes	yes	yes	can't tell	yes	yes	Satisfactory
Johnston et al 2015[10]	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	Satisfactory
Lipp et al 2014[11]	yes	yes	yes	yes	can't tell	can't tell	yes	yes	yes	yes	Satisfactory
Loeb 2014[12]	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	Satisfactory
Lofters et al 2016[13]	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	Satisfactory
Maisonneuve et al 2015[14]	yes	can't tell	yes	yes	can't tell	yes	yes	yes	yes	yes	Satisfactory
Mawdsley et al 2015[15]	yes	yes	yes	yes	yes	can't tell	yes	yes	yes	yes	Satisfactory
Morley 2014[16]	yes	yes	yes	yes	yes	yes	yes	can't tell	yes	yes	Satisfactory

First Author	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	Rating
Raiman et al 2017[17]	yes	yes	yes	yes	yes	can't tell	yes	yes	yes	yes	Satisfactory
Reames et al 2016[18]	yes	yes	yes	yes	yes	can't tell	yes	yes	yes	yes	Satisfactory
Wang et al 2013[19]	yes	yes	yes	yes	yes	can't tell	yes	can't tell	yes	yes	Satisfactory
Wani et al 2013[20]	yes	can't tell	yes	yes	can't tell	can't tell	yes	can't tell	yes	yes	Fair
Winandy et al 2016[21]	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	Satisfactory

Quality of quantitative studies (n=13)

The Quality Assessment Tool for Observational Cohort and Cross-Sectional Studies [22]

1. Was the research question or objective in this paper clearly stated?
2. Was the study population clearly specified and defined?
3. Was the participation rate of eligible persons at least 50%?
4. Were all the subjects selected or recruited from the same or similar populations (including the same time period)? Were inclusion and exclusion criteria for being in the study pre-specified and applied uniformly to all participants?
5. Was a sample size justification, power description, or variance and effect estimates provided?
6. For the analyses in this paper, were the exposure(s) of interest measured prior to the outcome(s) being measured?
7. Was the timeframe sufficient so that one could reasonably expect to see an association between exposure and outcome if it existed?
8. For exposures that can vary in amount or level, did the study examine different levels of the exposure as related to the outcome (e.g., categories of exposure, or exposure measured as continuous variable)?
9. Were the exposure measures (independent variables) clearly defined, valid, reliable, and implemented consistently across all study participants?
10. Was the exposure(s) assessed more than once over time?
11. Were the outcome measures (dependent variables) clearly defined, valid, reliable, and implemented consistently across all study participants?
12. Were the outcome assessors blinded to the exposure status of participants?
13. Was loss to follow-up after baseline 20% or less?
14. Were key potential confounding variables measured and adjusted statistically for their impact on the relationship between exposure(s) and outcome(s)?

First Author	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	Rating
Cain et al 2013[23]	yes	yes	no	yes	NA	yes	yes	yes	yes	yes	yes	yes	NA	yes	Good
Deen et al 2013[24]	yes	yes	no	yes	NA	yes	yes	yes	yes	yes	yes	yes	NA	yes	Good
Desselle 2017[25]	yes	yes	yes	yes	NA	yes	yes	yes	yes	yes	yes	yes	NA	yes	Good
Fuoco et al 2015[26]	yes	yes	no	yes	NA	yes	yes	yes	yes	yes	yes	yes	NA	yes	Good
Ganasegeran et al 2017[27]	yes	yes	yes	yes	NA	yes	yes	yes	yes	yes	yes	yes	NA	yes	Good
Keller et al 2014[28]	yes	yes	no	yes	NA	yes	yes	yes	yes	yes	yes	yes	NA	yes	Good
Kostka-Rokosz 2014[29]	yes	yes	yes	Yes	yes	Good									
Narayanaswami et al 2015[30]	yes	yes	no	yes	NA	yes	yes	yes	yes	yes	yes	yes	NA	yes	Good
Nikiphorou et al 2016[31]	yes	yes	NR	yes	NA	yes	yes	yes	yes	yes	yes	yes	NA	yes	Good
Patel et al 2017[32]	yes	yes	NR	yes	NA	yes	yes	yes	yes	yes	yes	yes	NA	yes	Good
Siegal et al 2016[33]	yes	yes	no	yes	NA	yes	yes	yes	yes	yes	yes	yes	NA	yes	Good
Stevens et al 2012[34]	yes	yes	no	yes	NA	yes	yes	yes	yes	yes	yes	yes	NA	yes	Good
Wang et al 2012[35]	yes	yes	no	yes	NA	yes	yes	yes	yes	yes	yes	yes	NA	yes	Good

Key: NA, not applicable; NR, not reported

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